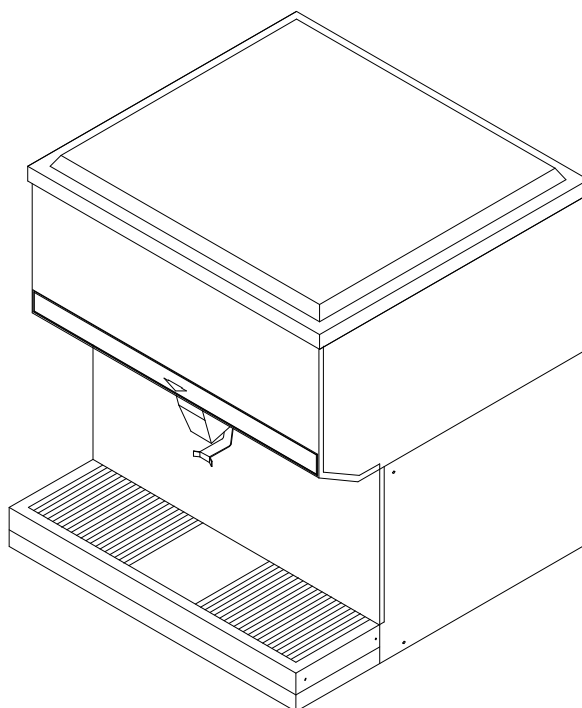




ICE DISPENSER

Model D3030-1

Installation Manual



Part No. 9171
Revised: Aug

THIS DOCUMENT CONTAINS IMPORTANT INFORMATION

This Manual must be read and understood before installing or operating this equipment

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MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENT NUMBERS:
3,211,336/3,274,792/3,393,839/3,517,860/3,739,842/4,215,803/4,227,377/4,300,359/4,346,824

CANADIAN PATENT NUMBERS
912,514 (10/72)/936,855 (11,73)/4,429,543/4,921,149
OTHER PATENTS PENDING

SAFETY PRECAUTIONS

Always disconnect power to the dispenser before servicing or cleaning.

Never place hands inside of hopper or gate area without disconnecting power to the dispenser. Agitator rotation occurs automatically when dispenser is energized!

This ice dispenser has been specifically designed to provide protection against personal injury and eliminates contamination of ice. To ensure continued protection and sanitation, observe the following:

ALWAYS be sure the removable lid is properly installed to prevent unauthorized access to the hopper interior and possible contamination of the ice.

ALWAYS be sure the upper and lower front panels are securely fastened.

ALWAYS keep area around the dispenser clean of ice cubes.



CAUTION: Dispenser cannot be used with crushed or flaked ice. Use of bagged ice, which has frozen into large chunks, can void warranty. The dispenser agitator is not designed to be an ice crusher. Use of large chunks of ice which “jam up” inside the hopper will cause failure of the agitator motor and damage to the hopper. If bagged ice is used, it must be carefully and completely broken into small, cube-sized pieces before filling into the dispenser hopper.

GENERAL DESCRIPTION

The D3030-1 ice dispensers solve your ice and beverage service needs in a sanitary space saving, economical way. Designed to be manually filled with ice from any remote ice-making source, these dispensers will dispense cubes (up to 1-1/4" in size), cubelets and hard-chipped or cracked ice.

Table 1. Specifications

Model:	D3030-1
Ice Storage:	150 lbs.
Electrical:	120/1/60, 3 Amp
Drain Connection:	3/4" FPT
Electrical Connection	6', 3-wire Cord with 3-Prong Ground Type Plug
Dimensions:	30" X 30" x 34-1/2"

INSTALLATION INSTRUCTIONS

1. Locate the dispenser indoors on a level counter top. Unpack the four (4) legs and install them into the threaded holes provided in the bottom of the unit.
2. Connect the 3/4" IPS (or equal) drain line to the 3/4" threaded drain connections at the lower rear of the unit. This line must pitch downward to an open drain and must contain no traps, or improper drainage will result.
3. Clean the hopper interior. (See CLEANING INSTRUCTIONS.)
4. Connect the power cord to a 120 volt, 60 hertz, 3-wire grounded receptacle. All electrical wiring must conform to national and local electrical codes.

NOTE: Page 6 provides mounting templates for those who desire to mount dispensers on a counter.



CAUTION: Disconnect power to dispenser before installing, removing or adjusting restrictor.

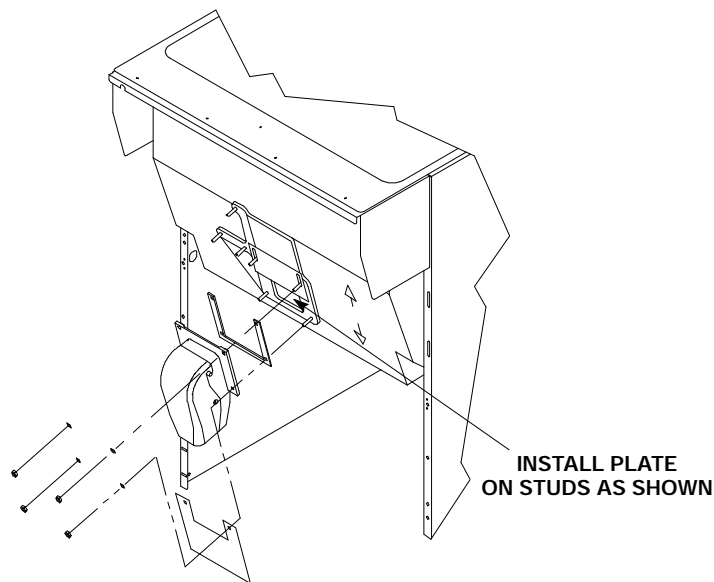


FIGURE 1. GATE RESTRICTOR PLATE

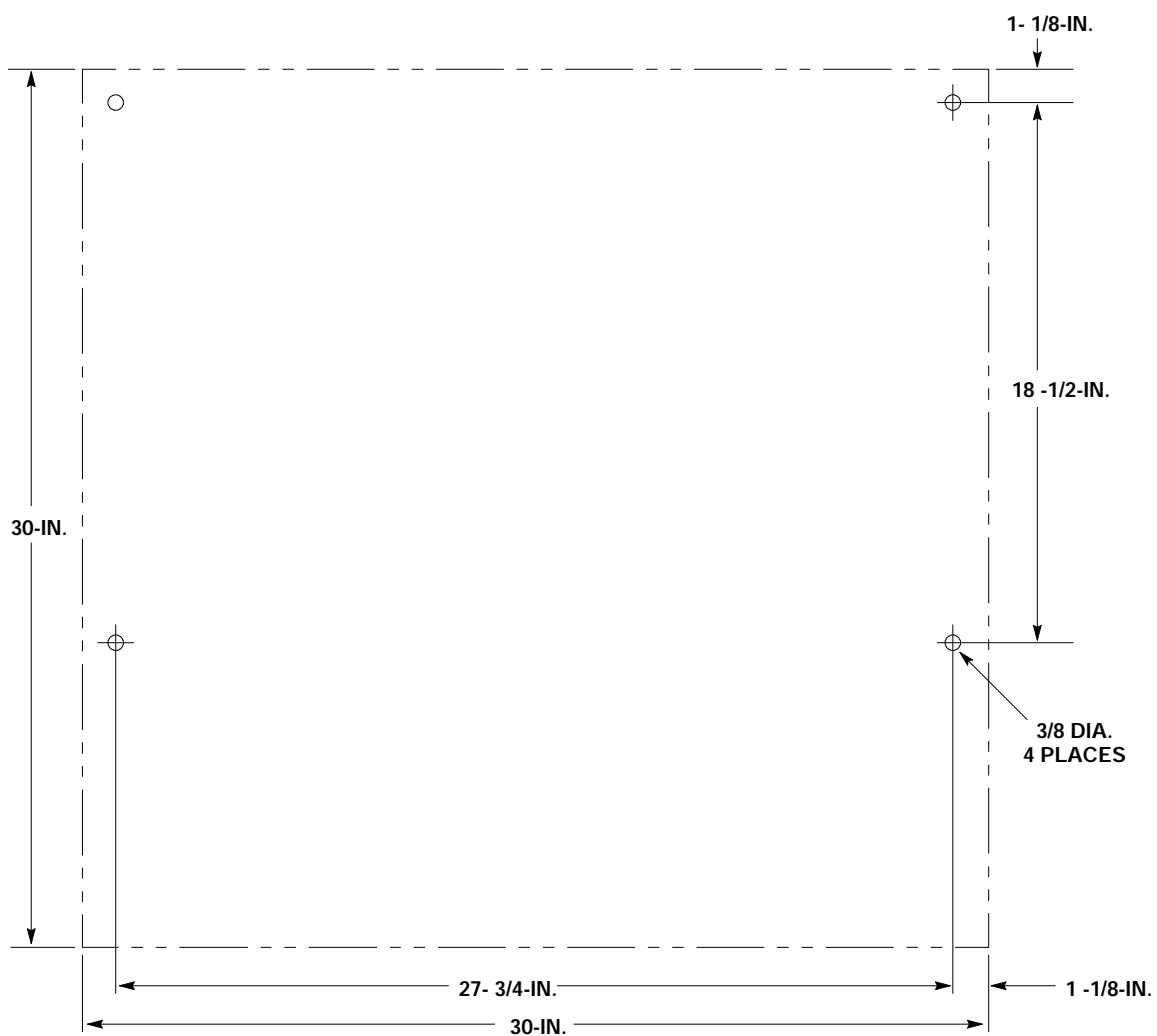
ADJUSTMENT

This dispenser is provided with a gate restrictor plate, installed in it's highest position. This plate adjusts the rate of ice flow from the dispenser. In applications using buckets, carafes or other large containers, the plate may be removed entirely for maximum ice flow. For glasses and cups, the plate may be adjusted downward to reduce the flow of ice. The best position depends on the type of ice being used and the size container and must be found by trial and error. Adjustment is made by loosening the upper two ice chute retaining nuts, sliding the restrictor plate to the desired position and re-tightening the nuts.

If the dispenser fails to dispense the ice when operated, check that the hopper has ice in it and that power is being supplied to the unit. If the problem persists check the following:

1. Determine if the agitator is rotating (check for the sound of ice movement in the hopper).
2. Observe whether the gate is opening.

D3030-1
MOUNTING TEMPLATE



NOTE: Leg mounting holes ref. (5/16-18 threads)

FIGURE 2. D3030-1 MOUNTING TEMPLATE

CLEANING INSTRUCTIONS



WARNING: DISCONNECT POWER BEFORE CLEANING! Do not use metal scrapers, sharp objects or abrasives on the ice storage hopper, top cover and the agitator disk, as damage may result. Do not use solvents or other cleaning agents, as they may attack the plastic material.

DISPENSER

1. Clean the ice dispenser interior at least once a month.
2. Lift off agitator assembly and wash and rinse it thoroughly.
3. Wash down the inside of the hopper and top cover with a mild detergent solution and rinse thoroughly to remove all traces of detergent.
4. Replace the agitator.
5. Sanitize the inside of the hopper and agitator with a solution of 1/2 ounce of household bleach in 1 gallon of water.
6. Remove ice chute cover as follows:
 - A. Flex sides outward to disengage lower pins.
 - B. Lift ice chute cover to disengage upper pins.
 - C. Lower ice chute cover down out of unit. **NOTE: It may be helpful to twist cover slightly.**
7. Clean the inside of the ice chute and ice chute cover, with a mild detergent solution and rinse thoroughly to remove all traces of detergent.
8. Reverse steps above to reassemble ice chute.
9. Sanitize as described in Step 5.

OPERATING INSTRUCTIONS

Fill hopper with ice and replace the lid. Pushing the dispenser lever will cause ice to flow from the ice chute. Ice flow will continue until the lever is released. If ice does not dispense, see the troubleshooting guide to find the cause.

NOTE: Use caution to avoid spilling ice when filling dispenser. Immediately clean up any spilled ice from filling or operating the unit. To prevent contamination of ice, the lid must be installed on the unit at all times.

MAINTENANCE

The following dispenser maintenance should be performed at the intervals indicated.

DAILY or as required

Remove foreign material from vending area sink to prevent drain blockage.

WEEKLY or as required

Clean the vending area. Check for proper water drainage from the vending area sink.

MONTHLY

Clean and sanitize the hopper interior. (See cleaning instructions).

If the dispenser fails to dispense ice when operated, check that the hopper has ice in it and that power is being supplied to the unit. If the problem persists, check the following:

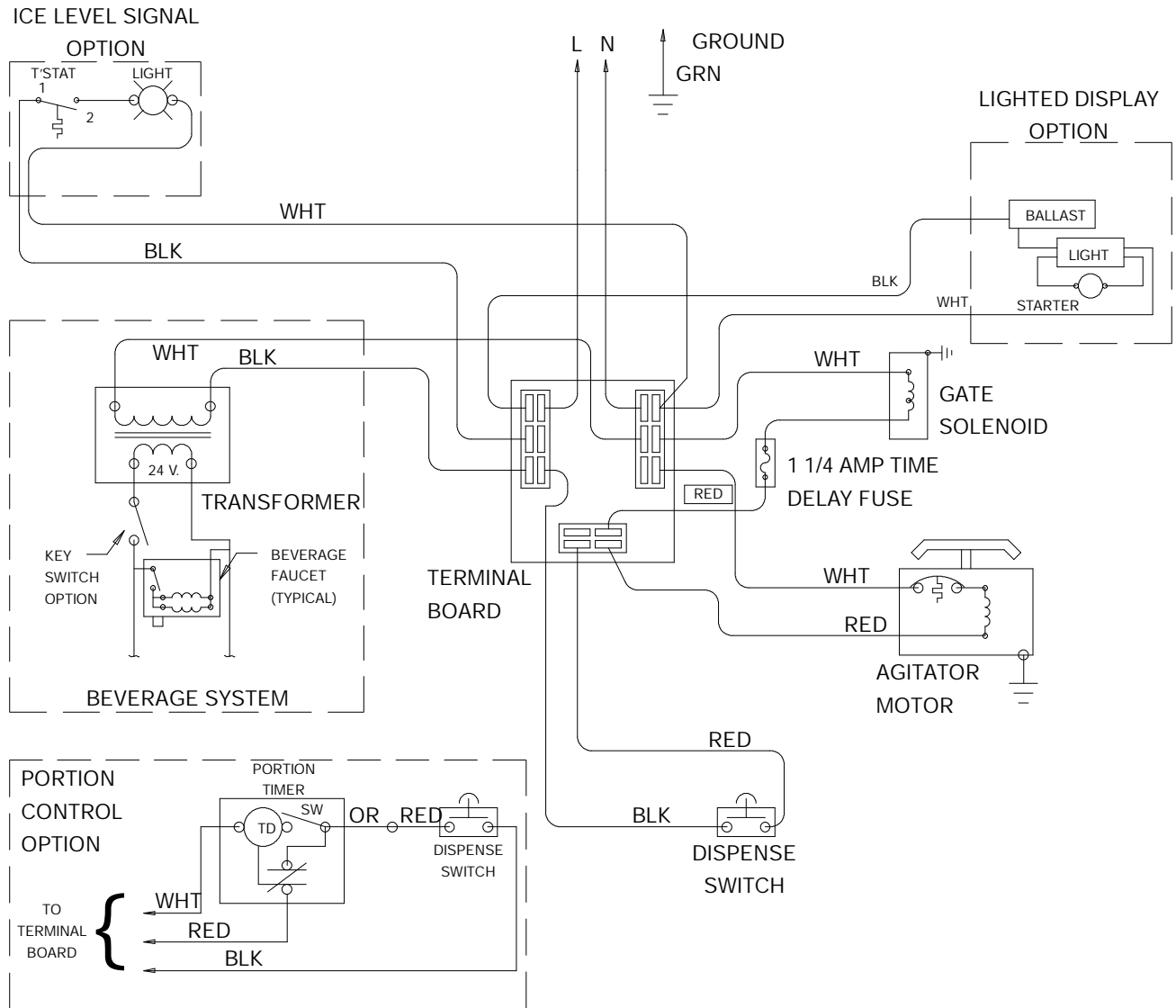
1. Determine if the agitator is rotating (check for the sound of ice movement in the hopper).
2. Observe whether the gate is operating.

After checking the above, refer to the troubleshooting guide for possible problem, causes, and corrective action.

TROUBLESHOOTING

Should your unit fail to operate properly, check that there is power to the unit and that the hopper contains ice. If the unit still does not dispense, check the following chart under the appropriate symptoms to aid in locating the defect.

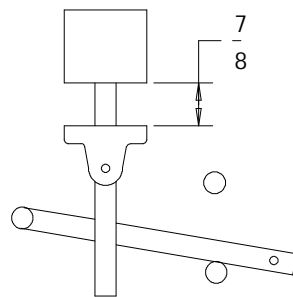
Trouble	Probable Cause
BLOWN FUSE OR CIRCUIT BREAKER.	A. Short circuit in wiring. B. Defective gate solenoid. C. Defective agitator motor.
GATE DOES NOT OPEN. AGITATOR DOES NOT TURN.	A. No power. B. Bent depressor plate (does not actuate switch). C. Defective dispensing switch.
GATE DOES NOT OPEN OR IS SLUGGISH. AGITATOR TURNS.	A. Defective gate solenoid. B. Weak gate spring. C. Excessive pressure against gate slide.
GATE OPENS, AGITATOR DOES NOT TURN.	A. Ice solidified in hopper. B. Defective agitator motor. C. Defective capacitor (D90 only).
ICE DISPENSES CONTINUOUSLY.	A. Stuck or bent depressor plate (does not release switch). B. Defective dispensing switch. C. Improper switch installation.
SLUSHY ICE, WATER IN HOPPER.	A. Blocked drain. B. Unit not level. C. Poor ice quality due to water quality or ice maker problems.



SERVICE INFORMATION

DANGER!

ELECTRIC SHOCK HAZARD. DISCONNECT
POWER BEFORE SERVICING UNIT.



SOLENOID ADJUSTMENT

WHEN REPLACING SOLENOID,
ADJUST TO 7/8 AS SHOWN
BEFORE TIGHTENING
MOUNTING SCREWS.

FIGURE 3. WIRING DIAGRAM

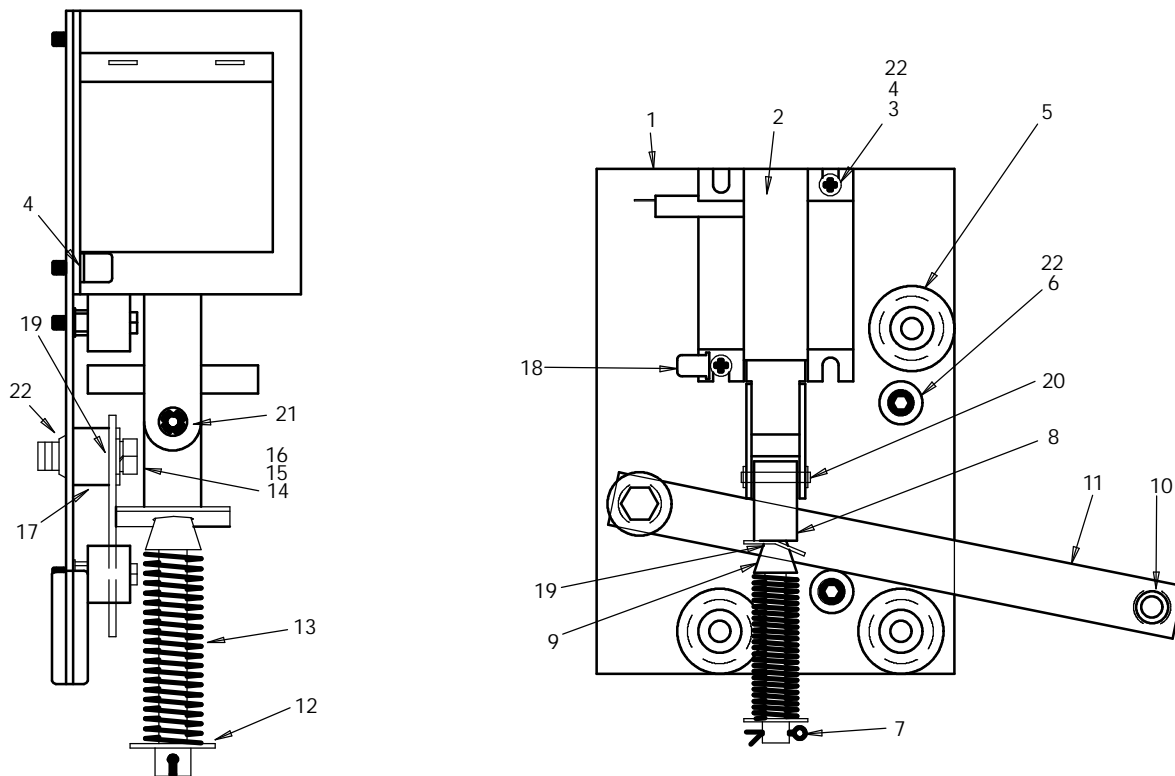


FIGURE 4. SOLENOID ASSEMBLY EXPLODED VIEW AND PARTS LIST

Index No.	Part No.	Qty.	Name
1	21493	1	Solenoid Mounting Plate
2#	31551	1	Solenoid Service Kit
3	70171	2	8-32 x 3/8 Phil Tr HD Screw
4	70121	2	No. 8 Lockwasher
5	50752	3	Isolator
6*	50789	2	Bumper Assembly
7*	70423	1	Cotter Pin
8*	10080	1	Gate Lift Rod
9	10081	1	Gate Lift Rod Bushing
10	50754	1	Gate Arm Bearing
11	21492	1	Gate Lift Arm
12	70043	1	Flatwasher
13*	70422	1	Spring
14	70263	1	1/4-20 x 3/4 Hex Hd Screw
15	70048	1	1/4 Lockwasher
16	70066	1	1/4 Flatwasher
17	10077	1	Pivot Bearing
18	30227	1	1/4 Quick Connect Tab
19	50305	--	Lubricant
20*	21592	1	Solenoid Linkage Pin
21*	70433	2	Retainer Ring
22	51088	--	Loctite
--*	70438	--	Rebuilding Kit

NOTE: * Parts supplied with rebuilding kit.
31551 solenoid supplied with items 20 & 21.

PARTS LIST

Item No.	Part No.	Name
1	214910	Gate Slide
2	215150	Depressor, Cup Activated
3	22644	Depressor Retainer (for 21515)
4	27126	Depressor Push Lever
5	27107	Depressor Retainer (for 27126)
6	24069	Agitator
7	02070	Dispense Switch Kit
8	31007	Switch Boot
9	31163	Switch Insert
10	70847	Switch Spacer
11	23062	Foam Shield
12	31889	Agitator Motor
13	50454	Motor Shaft Seal
14	50805	Motor Gasket
15	51432	Lid
16	51430	Sink
17A	53015	Ice Chute
17B	53016	Ice Chute Cover
18	51891	Gate Gasket
19	70570	Sink Grill
20	70419	Leg
21	90295	Cleaning Label
22	90788	Wiring Diagram
23	91722	Front Label
24	30774	Capacitor
25	31093	Solenoid Assembly
26	70438	Rebuilding Kit



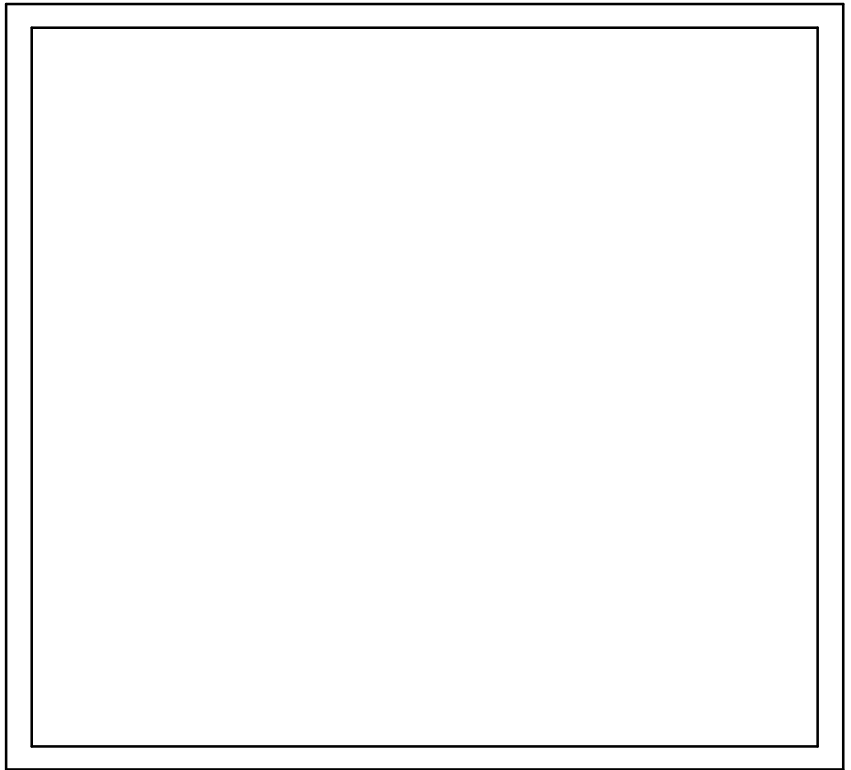
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WARRANTY

IMI Cornelius Inc. warrants that all equipment and parts are free from defects in material and workmanship under normal use and service. For a copy of the warranty applicable to your Cornelius product, in your country, please write, fax or telephone the IMI Cornelius office nearest you. Please provide the equipment model number and the date of purchase.

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